

### EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	704	451/56.ccds.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:37
S2	478	451/60.ccds.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:37
S3	254722	polish\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:38
S4	2208	451/41.ccds. and polish\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:38
S5	480	451/56.ccds. and polish\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:38
S6	380	451/60.ccds. and polish\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:39
S7	419839	pad	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 10:39
S8	46	"3-hydroxy-4-pyrones"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:04
S9	955901	("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or (borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (sulfurous (solvated adj electrons) (sulfurous adj acid))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:15

### EAST Search History

S10	955901	("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or (borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) or hydrogen or hydroquinones or hydroxylamine or hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid) ("428" or "156" or "51").clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:17
S11	303143		US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:18
S12	43264	((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or (borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and ((("428" or "156" or "51").clas.) -"451".clas"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:18
S13	0		US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:18
S14	64433	"451".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:18
S15	1097	((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or (borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and "451".clas. reducing agent	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:19
S16	2868440		US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/22 13:23

### EAST Search History

S#	Ref ID	Search Query	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:23
S17	834	((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and "451".cls.) and (reducing agent) (451/41.ccls. and polish§3) and pad	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:34
S18	1562	(451/56.ccls. and polish§3) and pad	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:31
S19	396	(451/56.ccls. and polish§3) and pad	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:31
S20	263	(451/60.ccls. and polish§3) and pad	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:31
S21	337	((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and ((451/41.ccls. and polish§3) and pad) or ((451/56.ccls. and polish§3) and pad) or ((451/60.ccls. and polish§3) and pad))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:42

### EAST Search History

S#	Ref ID	Search Query	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:35
S22	49	((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and ((451/41.ccls. and polish§3) and pad) or ((451/56.ccls. and polish§3) and pad) or ((451/60.ccls. and polish§3) and pad) or ((451/41.ccls. and pad))) not (((451/41.ccls. and polish§3) and pad) and (((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and ((451/41.ccls. and polish§3) and pad) or ((451/56.ccls. and polish§3) and pad) or ((451/60.ccls. and polish§3) and pad)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:35
S23	288	((451/41.ccls. and polish§3) and pad) and (((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and ((451/41.ccls. and polish§3) and pad) or ((451/56.ccls. and polish§3) and pad) or ((451/60.ccls. and polish§3) and pad)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 13:20
S24	93	((("3-hydroxy-4-pyrones") or (hydroxy adj1 butyrolactones) or borane borohydrides (dialkylamine adj boranes) formaldehyde (formic adj acid) hydrogen hydroquinones hydroxylamine (hypophosphorous adj acid) trihydroxybenzene (solvated adj electrons) (sulfurous adj acid) ) and ((451/56.ccls. and polish§3) and pad) or ((451/60.ccls. and polish§3) and pad))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 13:38

### EAST Search History

S25	288	((3-hydroxy-4-pyrone) or (hydroxy adj1 butyrolactones) or borane boronyldiene (dialkylamine adj boranes) formaldehyde (formic acid) hydrogen hydroquinones hydroxylamine (hypophosphorous acid) trihydroxybenzene (soivated adj electrons) (sulfurous acid) ) and ((451/41.ccls. and polish\$3) and pad)	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 15:39
S26	3038	oxidizes\$2 and abrasive and polish\$4 and (reducing adj agent) and ((liquid or aqueous) adj carrier)	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 14:22
S27	1	(("4769046"   "5489233"   "5522423"   "5938794"   "6010269"   "6015056"   "602968"   "6117000"   "6117783"   "6126532"   "6290736"   "6299795"   "2002/0004360"   "2002/0010237"   "2002/0017630"),PN.	USPAT; OR	OFF	2004/09/22 14:18
S28	12	tantalum	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 14:19
S29	77604		US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 14:22
S30	2905	451/41.ccls.	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 14:23
S31	190	tantalum and 451/41.ccls.	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2004/09/22 14:23
S32	895	(\$1-alumina or alpha-alumina or (alumina near alumina)) with abrasive	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:29
S33	0	"451.clas"	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:11

### EAST Search History

S34	64929	"451".clas.	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:12
S35	66	S32 and S34	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 16:01
S36	6947	(silica or (fumed adj alumina)) with abrasive	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:30
S37	1138	(S32 or S36) and S34	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:30
S38	11	S35 and (reducing adj agent)	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:31
S39	27	S37 and (reducing adj agent)	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 15:31
S40	1109	S36 and S34	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 16:01
S41	24	S40 and (reducing adj agent)	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/21 16:01
S42	2	"6454822".pn.	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 09:38
S43	64929	"451".clas.	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 10:45
S44	195	S43 and ((iridium adj oxide) or (tantalum same (oxidized, oxide, oxidizer))) and ((polishing adj pad or abrasive))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 10:48

### EAST Search History

S#	#	Search Query	Source	OFF	2005/01/24 09:58
S45	195	S43 and ((iridium adj oxide) or (tantulum same (oxidized, oxide, oxidizer)) and ((polishing adj pad) or abrasive))	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 09:58
S46	6	(US-20020182982-\$ or US-20030013387-\$ or US-20040029495-\$ or US-20040132385-\$), did. or (US-6454822-\$ or US-6709316-\$), did.	US-PGPUB; OR USPAT	OFF	2005/01/24 09:59
S47	2	S45 and S46	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:08
S48	37	(silicone adj oxide) with "Si"	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 11:17
S49	6851	silicone near4 metal	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:15
S50	2852	silicone near2 metal	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:15
S51	740	silicone near1 metal	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:15
S52	1	S43 and S51	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:15
S53	5	S43 and S50	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:16

### EAST Search History

S#	#	Search Query	Source	OFF	2005/01/24 10:16
S54	11	S43 and S49	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:17
S55	10	S54 not S551	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:17
S56	6	S54 not S553	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:23
S57	0	S47 and (iridium adj oxide)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:24
S58	2	S43 and (iridium adj oxide)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:47
S59	212721	"428" .clas.	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:46
S60	609	(substrate or wafer or semiconductor or semi-conductor) with (iridium adj oxide)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:49
S61	2	S43 and (iridium adj oxide)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:49
S62	15	((substrate or wafer or semiconductor or semi-conductor) with (iridium adj oxide)) and ((polishing adj pad) or abrasive)	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 10:50
S63	1388	(copper adj oxide) with "Cu"	US-PGPUB; OR USPAT; USOCR; EPO; JPO; DERVENT	OFF	2005/01/24 11:17

### EAST Search History

S64	8	S63 and S43	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/01/24 11:17
S65	665	(iridium adj oxide) and (polish polishing CMP ("chemical mechanical polishing"))	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 13:23
S66	44	S65 and (reducing adj agent)	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 13:23
S67	569	(iridium adj oxide) and (CMP or ("chemical mechanical polishing"))	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 13:24
S68	569	(iridium adj oxide) and (CMP or ("chemical mechanical polishing"))	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 13:24
S69	46	(iridium adj oxide) same (CMP or ("chemical mechanical polishing"))	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 14:09
S70	2	"4717581".pn.	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 14:09
S71	2	"4679572".pn.	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/01/24 14:11
S72	2567	451/41.ccls. and polish\$3	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/07/12 10:33
S73	550	451/56.ccls. and polish\$3	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/07/12 10:33
S74	427	451/60.ccls. and polish\$3	US-PPGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2005/07/12 10:33

### EAST Search History

S75	80	(S72 S73 S74) and ("pH" near2 (buffering buffer buffer\$4))	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 10:43
S76	266	(S72 S73 S74) and (surfactant)	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 10:55
S77	1183	(ammonium adj hydroxide) same ("pH" near2 (buffering buffer buffer\$4))	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 10:43
S78	366	(ammonium adj hydroxide) with ("pH" near2 (buffering buffer buffer\$4))	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 10:44
S79	105	(ammonium adj hydroxide) near4 ("pH" near2 (buffering buffer buffer\$4))	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 10:44
S80	2	(S72 S73 S74) and ((advantages advantageous advantag\$5) with surfactant)	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 10:56
S81	5	("451".clas.) and ((advantages advantageous advantag\$5) with surfactant)	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 11:00
S82	40	("451".clas.) and ((desired improve improved improvement) with surfactant)	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 11:05
S83	2	"5783489".pn.	US-PPGPUB; OR USPAT; USOCR; EPO; JPO; DERWENT	OFF	2005/07/12 11:05

## EAST Search History

S84	3	(polishing adj (pad pads)) and (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinones\$3 or (hypophosphorous adj acid) or trihydroxybenzen or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/14 16:29
S85	3	(polishing adj (pad pads)) and (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinones\$3 or (hypophosphorous adj acid) or trihydroxybenzen or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:44
S86	241	((reducing adj agent) with (hydroxylamine with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinones\$3 or (hypophosphorous adj acid) or trihydroxybenzen or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:45

## EAST Search History

S87	3	(polishing adj (pad pads)) and ((reducing adj agent) with (hydroxylamine with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinones\$3 or (hypophosphorous adj acid) or trihydroxybenzen or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:45
S88	5	(CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinones\$3 or (hypophosphorous adj acid) or trihydroxybenzen or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/14 16:56
S89	185	(semiconductor wafer polish (planarize, substrate copper) and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinones\$3 or (hypophosphorous adj acid) or trihydroxybenzen or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/14 15:49

## EAST Search History

## EAST Search History

S90	176	(wafer polish planarize substrate copper) and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 15:49
S91	185	(semiconductor polish planarize substrate copper) and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 15:49
S92	185	(semiconductor planarize substrate copper) and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 15:49
S93	185	(semiconductor substrate copper) and ((reducing adj agent) with (hydroxylamine and ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 15:56

## EAST Search History

S98	345	((polishing adj (pad pads)) or (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 16:51	
S99	308	((polishing adj (pad pads)) or (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and (slurry composition solution) and ((reducing adj agent) with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 16:46	
S10 0	223	((polishing adj (pad pads)) or (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and (slurry composition) and ((reducing adj agent) with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 16:51	
S10 1	214	((polishing adj (pad pads)) or (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 16:51	
S10 2	4	((polishing adj (pad pads)) or (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with ((hydroxylamine glucose sulfonate (potassium adj iodide) with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid))))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 16:57	
S10 3	4	((polishing adj (pad pads)) or (CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with (hydroxylamine with ("3-hydroxy-4-pyrone") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj borane\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid))))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:17	

## EAST Search History

S10	4	0	(CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((reducing adj agent) with (glucose sulfonate (potassium adj iodide) with (("-3-hydroxy-4-pyrone\$") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj1 boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 16:57
		46	((polishing adj (pad pads)) or (planarize planarization slurry) and ((reducing adj agent) with ((glucose sulfonate (potassium adj iodide) with (("-3-hydroxy-4-pyrone\$") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj1 boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:01

## EAST Search History

S10	7	105	(CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((hydroxylamine with (("-3-hydroxy-4-pyrone\$") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj1 boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:49	
		8	105	((CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((hydroxylamine with (("-3-hydroxy-4-pyrone\$") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj1 boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:49
		81	81	((CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((hydroxylamine with (("-3-hydroxy-4-pyrone\$") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj1 boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid) or (hydrogen adj peroxide)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:53
		9	9	((CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and ((hydroxylamine with (("-3-hydroxy-4-pyrone\$") or (hydroxy adj1 butyrolactones) or borane or borohydrides or (dialkylamine adj1 boranes\$3) or formaldehyde or (formic adj acid) or hydrogen or hydroquinone\$3 or (hypophosphorous adj acid) or trihydroxybenzene or (solvated adj electrons) or (sulfurous adj acid)))	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:53
		24	24	S107 not S109	US-PGPUB; OR USPAT; EPO; JPO; DERWENT	OFF	2006/02/14 17:49

## EAST Search History

S11	31	(CMP or "chemical mechanical polishing" or "chemical mechanical planarization") and (hydroxylamine with ("3-hydroxy-4-pyrone") or (hydroxy adj 1 butyrolactones) or borane or borohydrides or (diisopropylamine adj borane\\$3) or formaldehyde or (formic adj acid) or hydroquinone\\$3 or (hypophosphorous adj acid) or trihydroxybenene or (solvated adj electrons) or (sulfurous adj acid)) (complexing adj agent) with (chelating adj agent)	US-PPGPUB; USPAT; EPO; JPO; DERVENT	OR	OFF	2006/02/14 17:53
S11	339	10753138.app.	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERVENT	OR	OFF	2006/02/15 08:55
S11	3	10753138.app.	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERVENT	OR	OFF	2006/02/15 09:20
S11	32	{"20020039839","20020090820","20020102923","20020111027","200301013387","20030119319","5489233","5327423","5691219","5958794","6117783","6139763","6219063","6313039","6315803","6419554","6527622"},PN,	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERVENT	OR	OFF	2006/02/15 09:28
S11	1	09755717.app.	US-PPGPUB; USPAT; USOCR; EPO; JPO; DERVENT	OR	OFF	2006/02/15 09:28